

FIG. 1

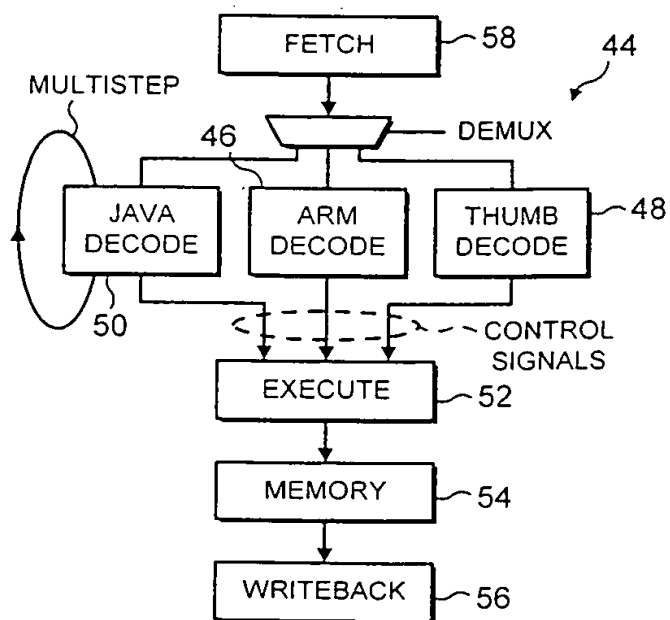


FIG. 2

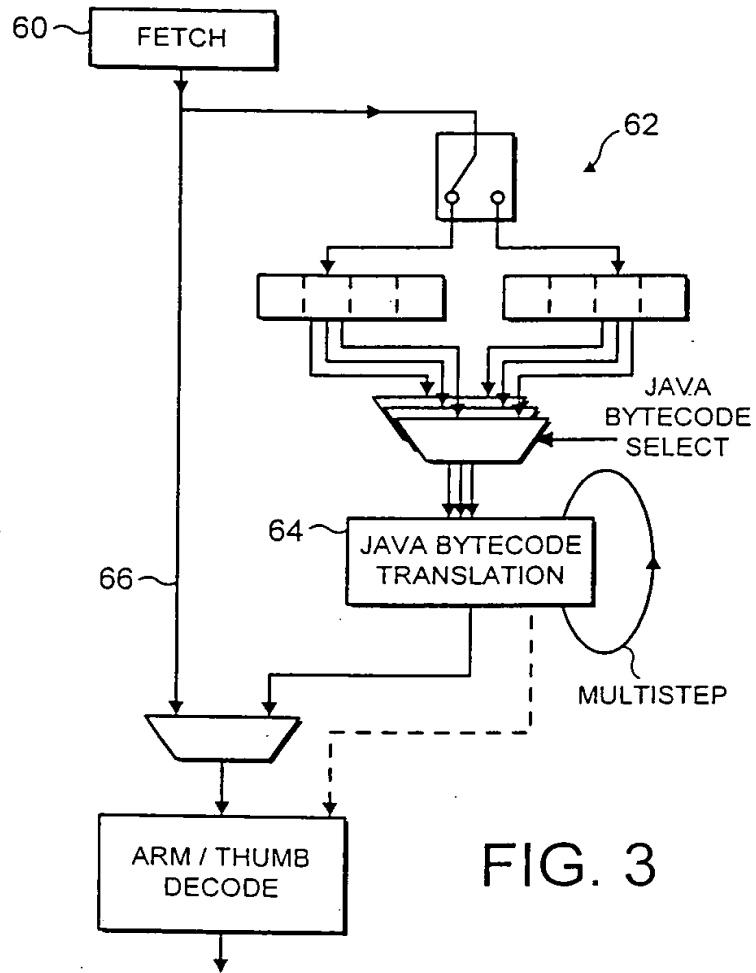


FIG. 3

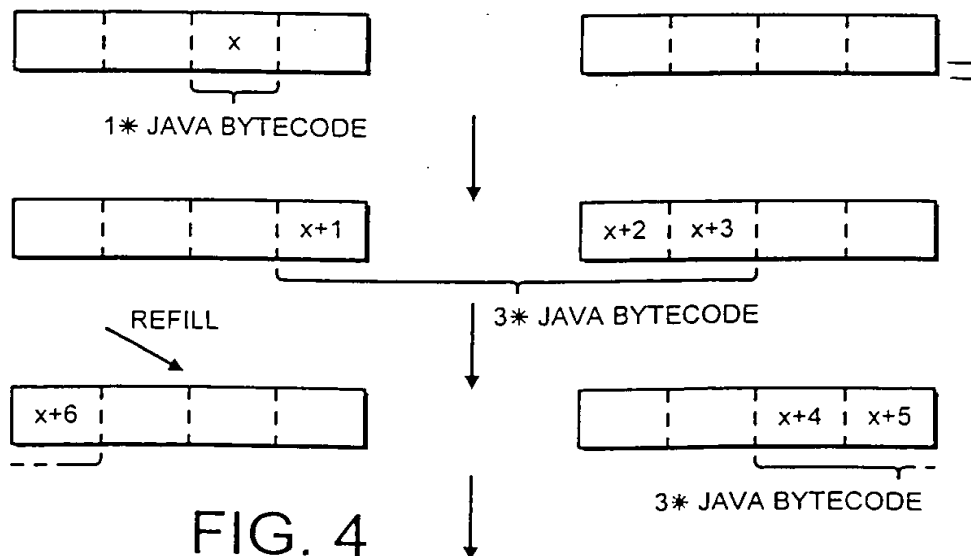


FIG. 4

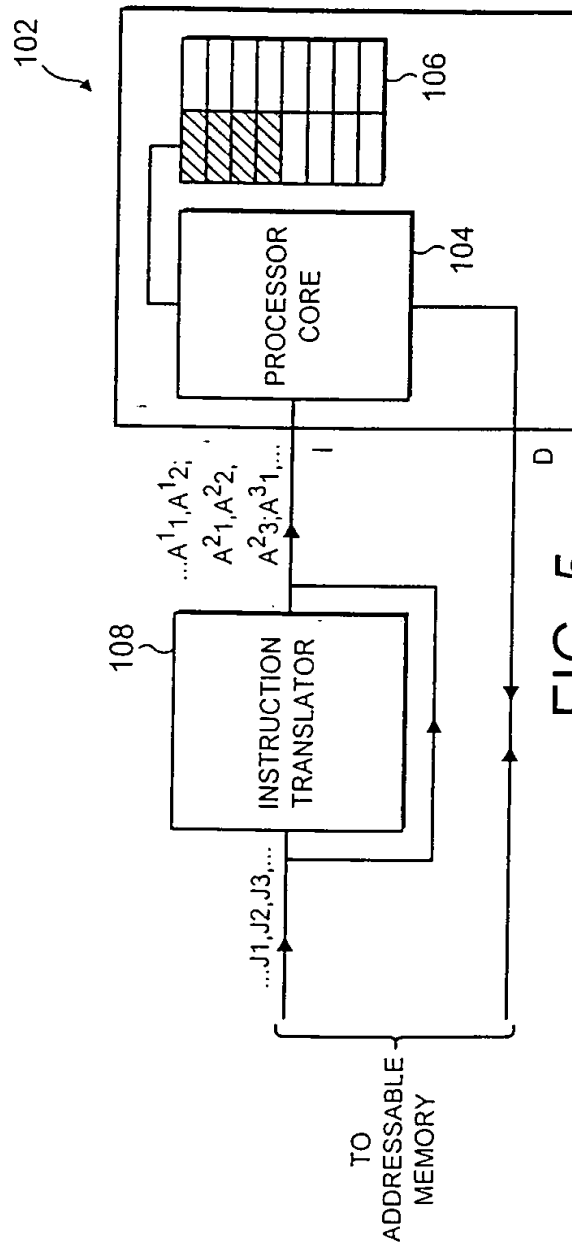
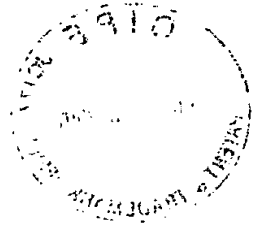


FIG. 5

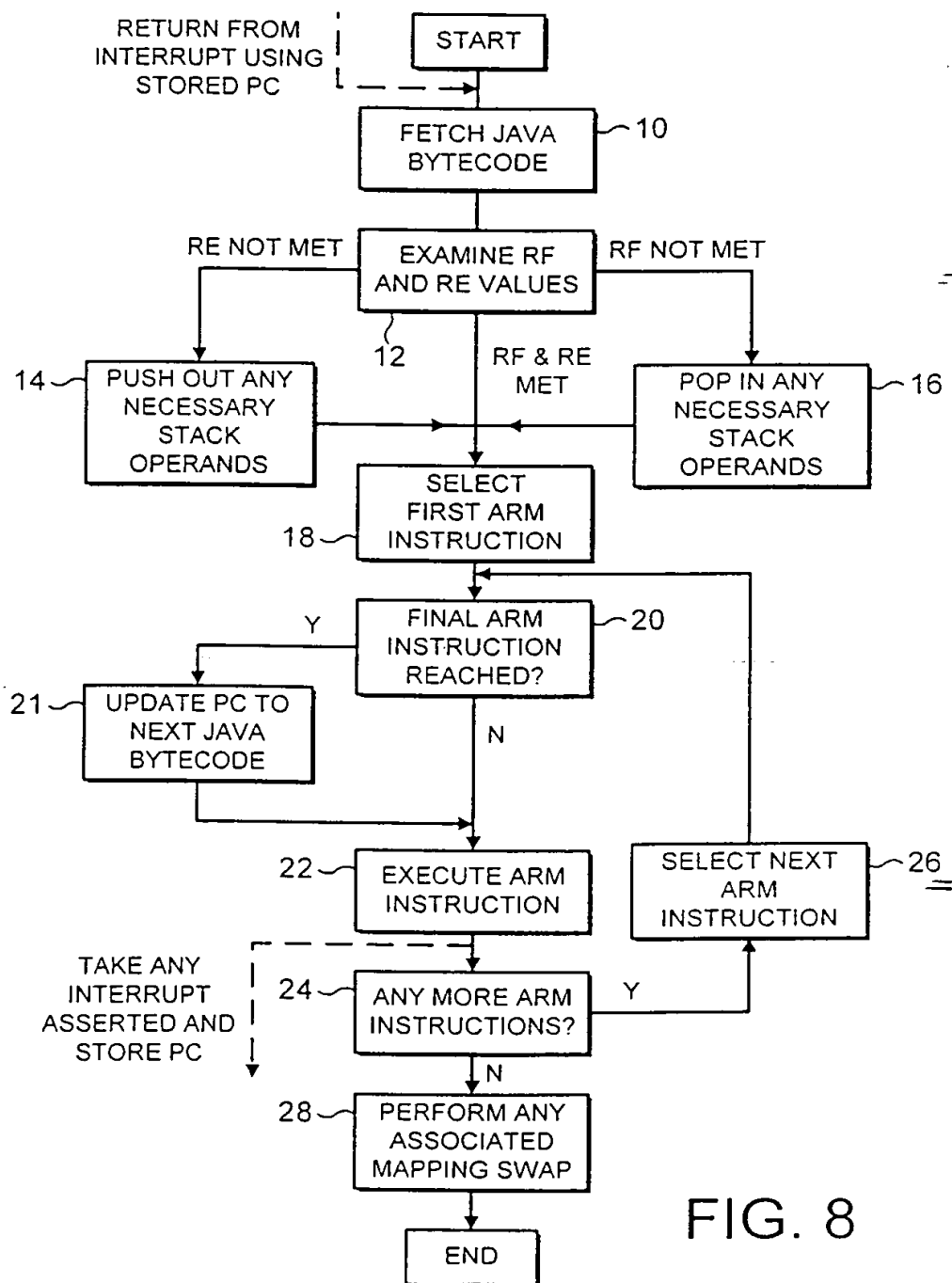
JAVA INSTRUCTION	iadd (RF=2, RF>0)	iadd (RF=2, RF>1)	iadd (SA=-1)
ARM INSTRUCTION(S)	LDR R0[RStack, #-4]! (POP) ↗	LDR R3[RStack, #-4]! (POP) ↗	ADD R3, R3, R0 ↘
STATE	00000	00100	01000
R0	E	SOA TOS	SOA TOS
R1	E	E	E
R2	E	E	E
R3	E	E	(SOA+SOB) TOS

JAVA INSTRUCTION	lload ¹ (RF=0, RE>2)	lload ² (RF=0, RE>2)	lload ² (RF=0, RE=2)
ARM INSTRUCTIONS	LDR R1,[Rvars, #4] ↗ LDR R0,[Rvars, #0] ↘	STR R3[RStack, #-4] ↗ (PUSH) ↘	LDR R3,[Rvars, #4] ↗ LDR R2,[Rvars, #0] ↘
STATE	00000	00100	01000
R0	E	SOC TOS-1	SOC TOS-1
R1	E	SOD TOS	SOD TOS
R2	E	E	E
R3	(SOA+SOB) TOS	(SOA+SOB) TOS	SOF TOS

FIG. 6







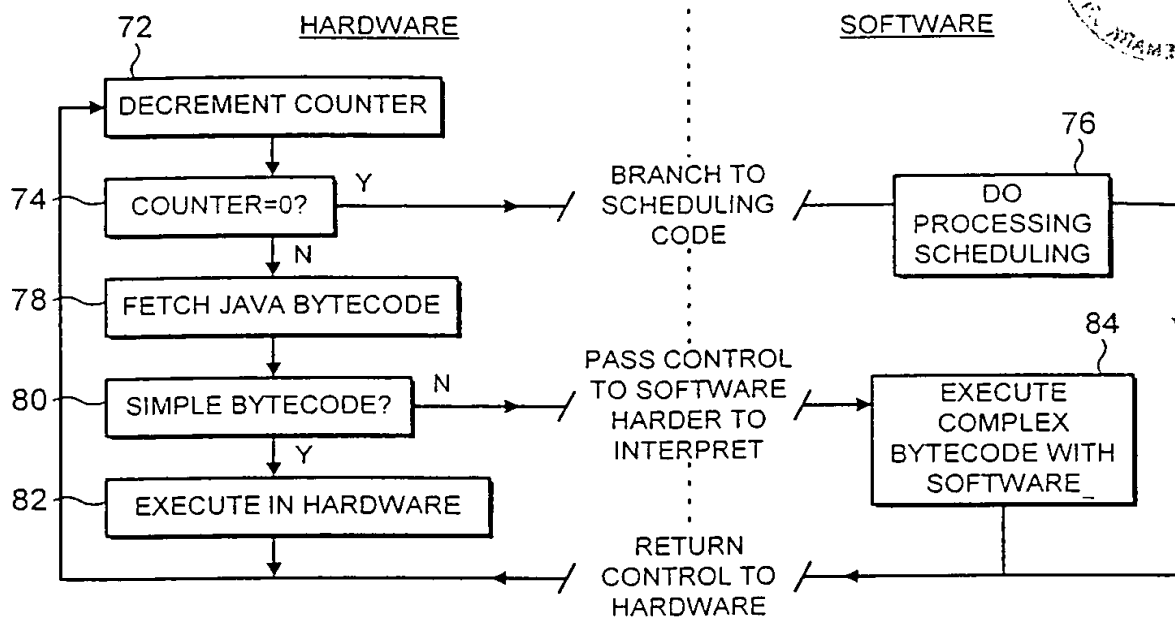


FIG. 10

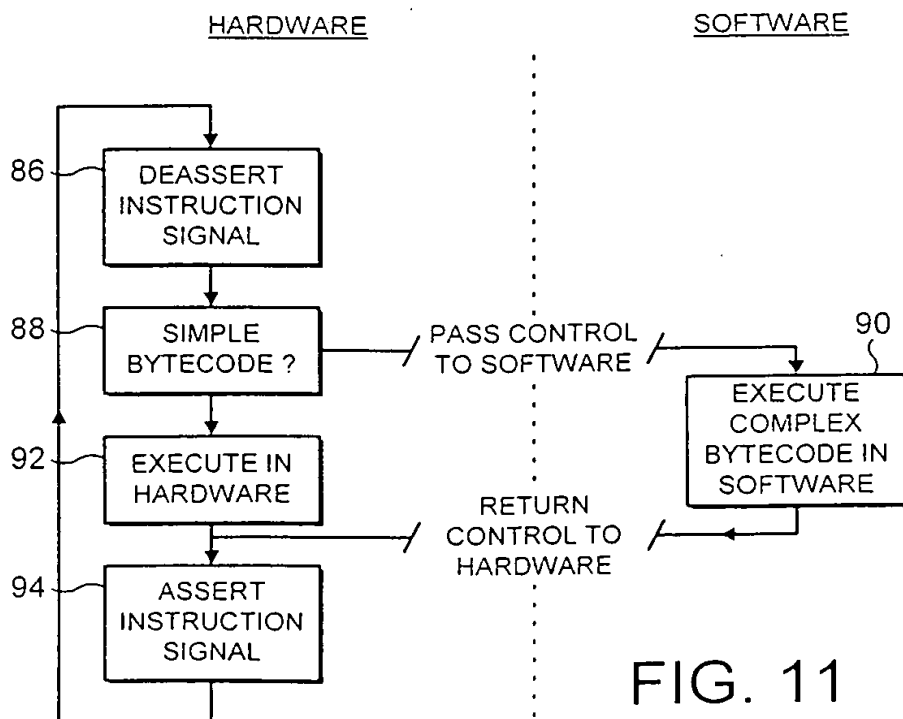


FIG. 11

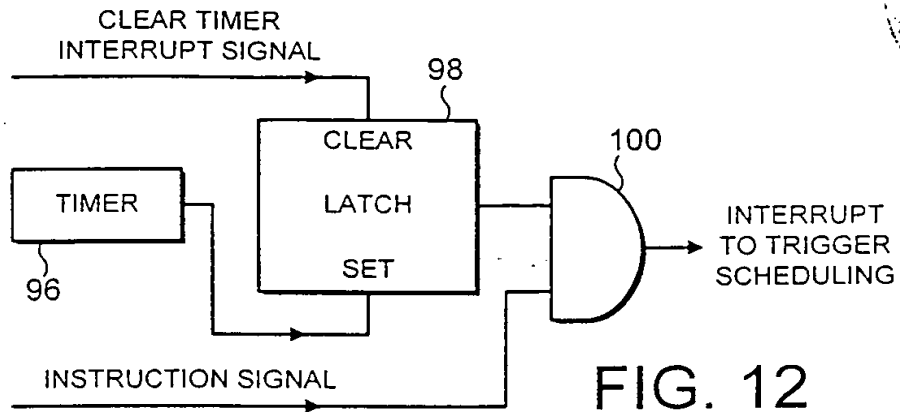


FIG. 12

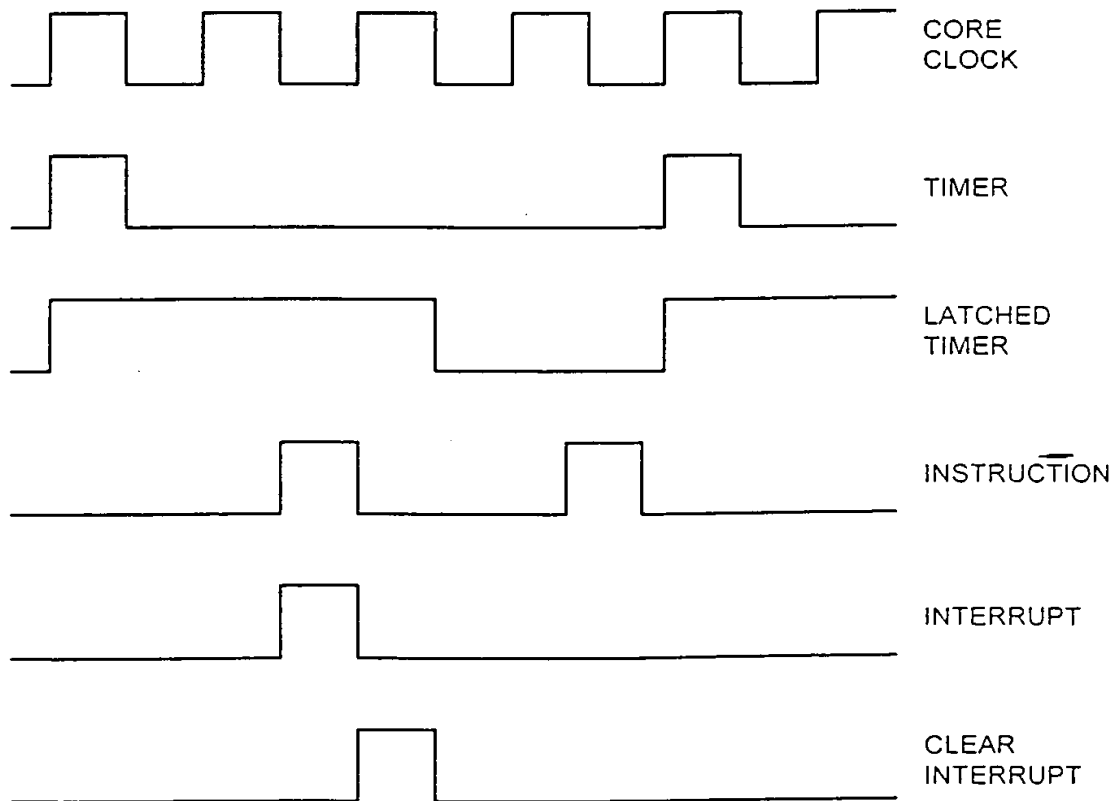


FIG. 13

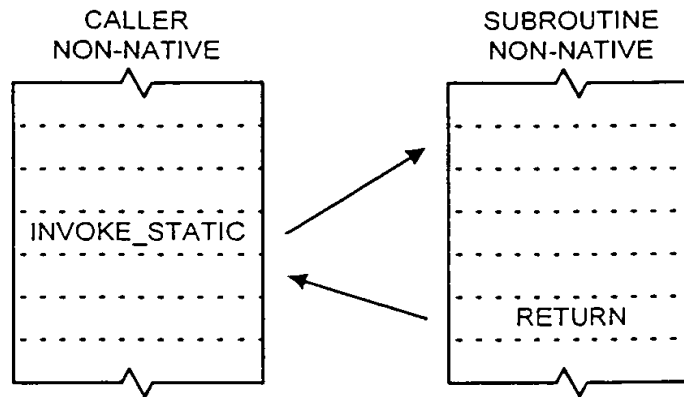


FIG. 14

PRIOR ART

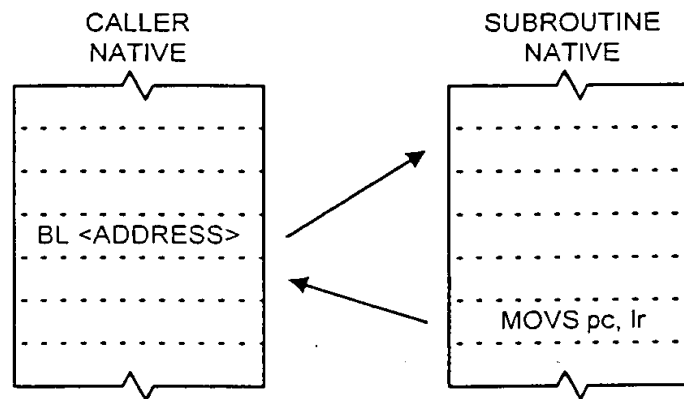


FIG. 15

PRIOR ART

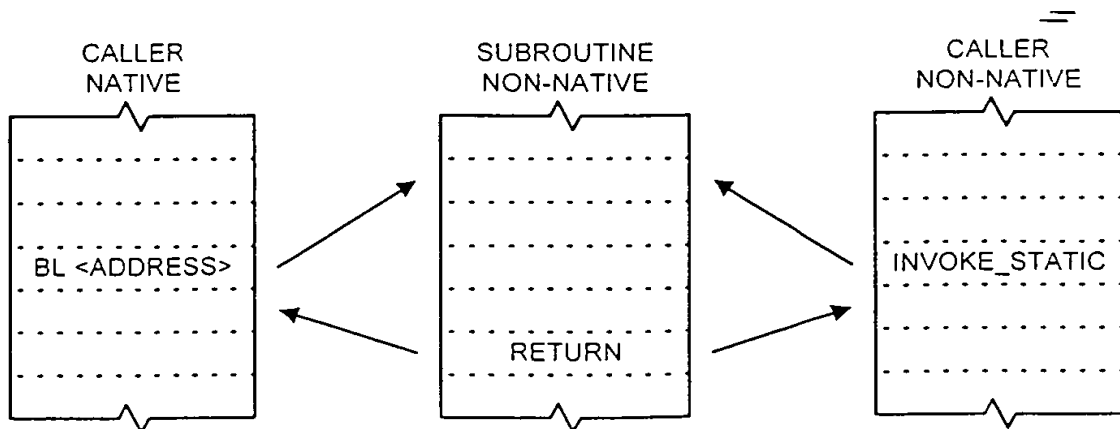


FIG. 16

PRIOR ART

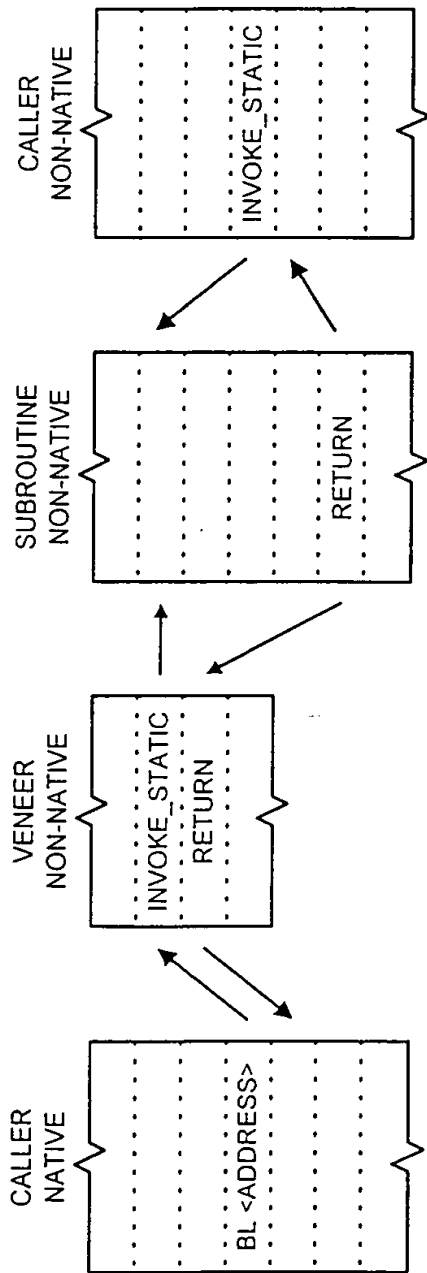


FIG. 17

PRIOR ART

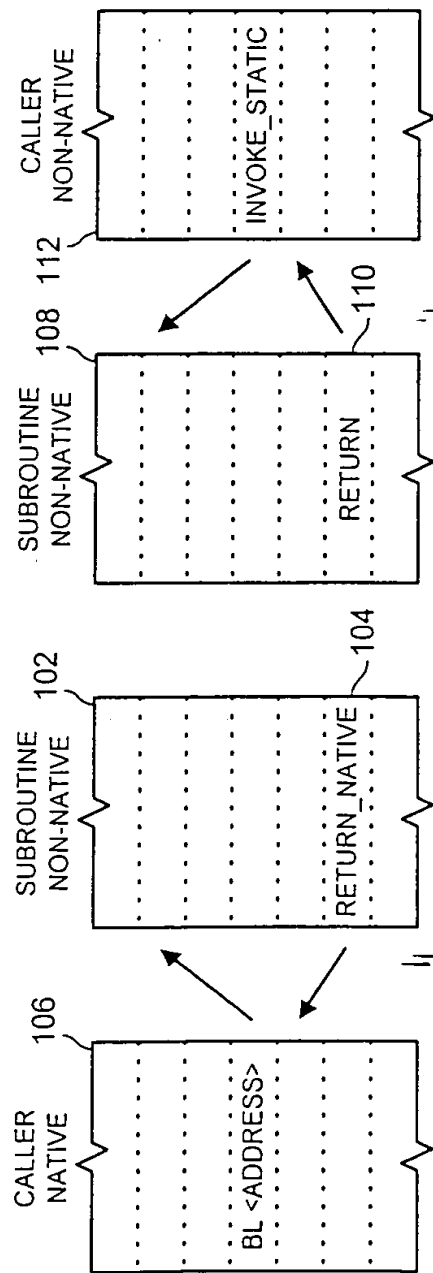


FIG. 18

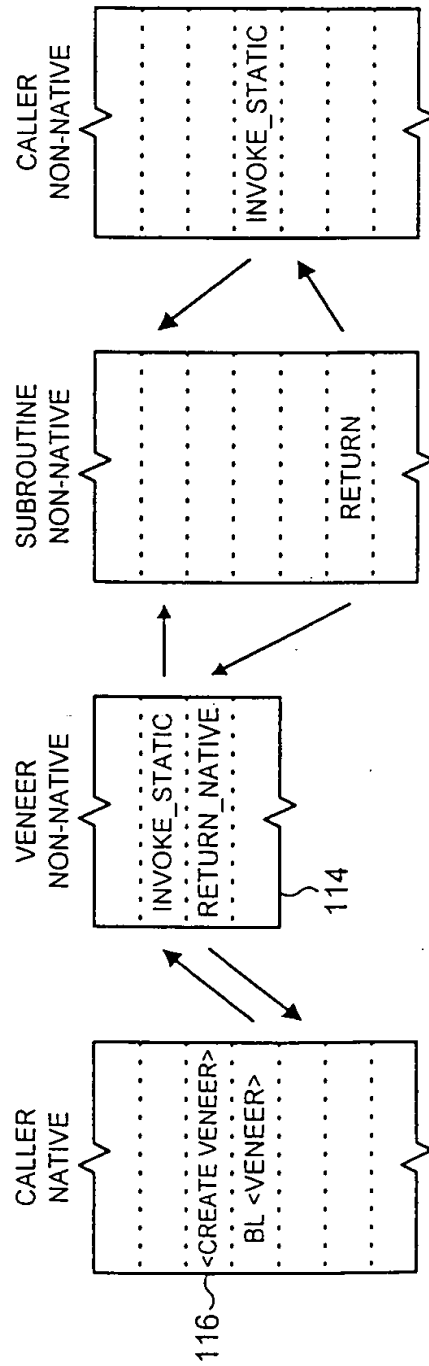
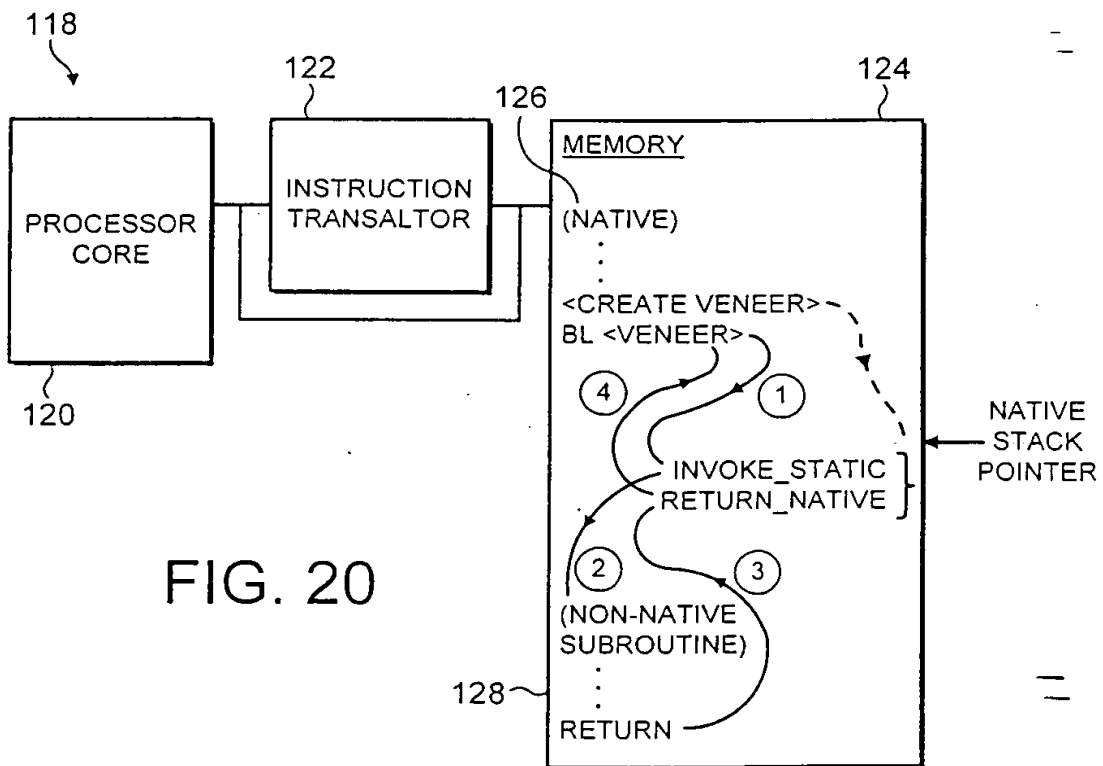


FIG. 19





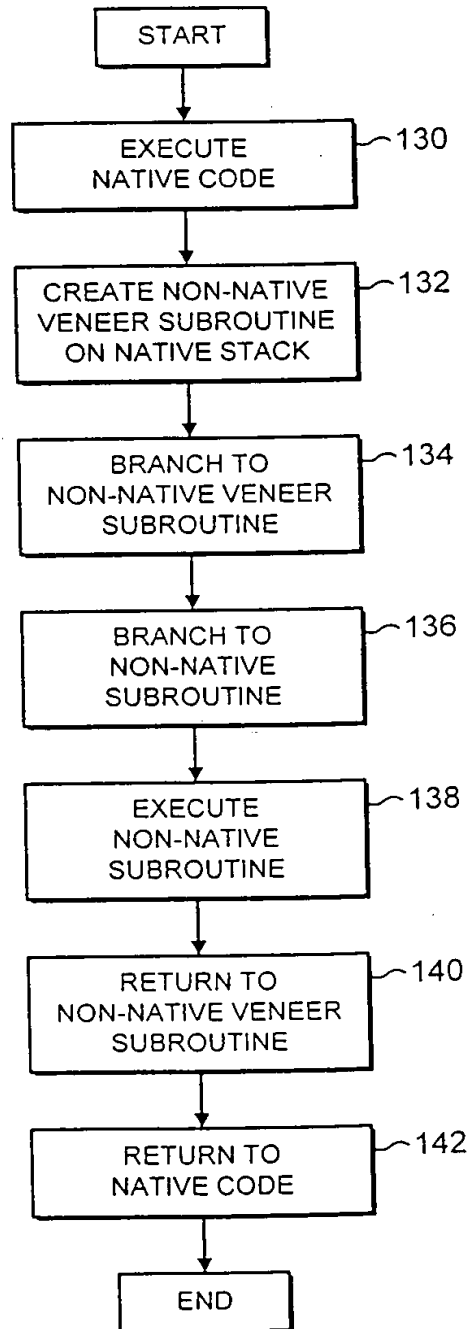


FIG. 21